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CERTIFICATE OF TRANSMISSION BY FACSIMILE (37 CFR 1.8) Applicant(s): FIKRET M. ZABTCIOGLU			Docket No. ZABF 104
Application No. 10/804,648	Filing Date MARCH 19, 2004	Examiner N/A	Group Art Unit 2652

Invention: HIGH RELIABILITY PARALLEL DATA TRANSFER HARD DISK DRIVE

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impact-shock occurs to the desktop or to the notebook as the system is running-and this causes the head to ding as it is called in the field, to the hard disk surface, or sudden power failures result in head crash, or damage to heads or to surface. Nevertheless, it is desirable to have a fly height as close to the recording media as possible.

The low fly height and increased recording density can be understood from the following first equation that expresses the dependence of the length of a pulse width PW50 obtained from a recording transition on the recording system.

PW50={g2+4(d+a)(d+a+.delta.)}.sup.1/2 **(1)**

where

g = gap length of the recording head

d = the distance separating the head and media

a = 2 Mr.delta./Hc (length of a recording transition)

.delta.= film thickness